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Transactions, that the Mercury is not affected with the weather, or very rarely, let it be Cloudy, Rainy, Windy, or Serene in St Helena, or the Barbadoes, and therefore probably not within the Tropicks, unless in a Violent storm or Hurricane. Now if the Mercury move little or nothing in the Baroscope, tis likely there is little or no Change in the Gravity of the Atmosphere within the Tropicks.

I am,

Your most Humble Servant,

WILLIAM MOLYNEUX.

Part of a Letter from Dr. Nath. Vincent. F. of the R. S: concerning Dr Papin's way of Raising Water.

I Have inquired into Dr Papin's Problematic Engine for raising Water, in the *Transaction* of July 1685, and do conclude it may be solved after this manner. Within his Rock *G C* (see *Phil. Trans.* Num. 173, Fig. 18th:) there may be a Vessel placed, which shall be made like the Body of a pair of Bellows, or those Puffs heretofore used by Barbers, which being filled with water, a piece of Clock-work put under it may produce the Jetto's; the water being received into the Shell *HH*, and running thence into the hollow of the Coral *EE*; may be thereby conveyed into the follicular cavity, in the same quantity it is ejected from the two

Emerging

Emerging Tubes ; and it shall circulate a hundred or more then a thousand times, according to the going of the Clock-work. If some such account as this will unriddle the Engine, the contrivance of it is owing to a Theory communicated by my self, &c.

A Letter of Mr. R. A. relating to the same subject.

I have here given you a rude Draught of *Monsr Papins* curious Experiment, hoping thereby to have my conception of it more readily understood ; if it carry not with it some appearance of reason, I desire you to suppress it, and you will much oblige, &c.

I conceive, that the *Air* is forced into the outer glass at the bottom thereof.

That it then passes up between the two Glasses.

That the outer glass or case being close luted at the Head or Crown to which the inner Glass is hung by the Corall, the *Air* is forced into the mouth of the Inner Glass.

That the *Air* so forced pressing on the surface of the Water that covers the Rock, forces the Water to rise thro those two extream parts that are not at all clog'd, or cover'd with Water.

I am, &c.